

# California Department of Forestry & Fire Protection Office of the State Fire Marshal CFIRS PROGRAM

# 1998 FIREWORKS INJURIES

Hospital Emergency Room Survey June 17 – July 16



On behalf of the California Fire Service, the Office of the State Fire Marshal commends the participating hospitals, the California Hospital Association for the endorsement and the medical professionals for their continuing support of this data collection process. Their cooperation is essential to the credibility and validity of this annual report. A list of these participating hospitals is included in the following pages.

This report describes the results of the 1998 Annual Fireworks Injury Survey that is conducted each year upon completion of the Fourth-of-July holiday season.

Neighborhood medical clinics are not included in this survey. These incident records are collected from hospital emergency rooms only, and may not reflect the total number of injuries actually experienced. The number of hospitals with emergency rooms that participated in last year's survey was 202, compared to 180 in 1998. We have conducted this study with the hospital emergency rooms since 1982. Of the 161 injuries reported, Illegal fireworks accounted for 45%, with Safe & Sane being identified as 35%, and Unknown as 20%.

The number sampling indicates that illegal fireworks continue to be the major contributor to injuries that result in emergency medical treatment. This would seem to indicate that the problem is continuing in spite of both increased enforcement and educational efforts.



# Hospitals Reporting

#### ALAMEDA COUNTY

Children's Hospital
Kaiser Permanente – Hayward
Summit Medical Center\*
Valley Care Medical Center
Washington Hospital

#### AMADOR COUNTY

Sutter Amador Hospital\*

#### **BUTTE COUNTY**

Enloe Medical Center – Cohasset\* Feather River Hospital\*

#### CALAVERAS COUNTY

Mark Twain St. Joseph's Hospital\*

#### COLUSA COUNTY

Colusa Community Hospital

#### CONTRA COSTA COUNTY

Doctors Medical Center – San Pablo\* Kaiser Permanente – Walnut Creek Mt. Diablo Medical Center San Ramon Regional Medical Center\*

#### **DEL NORTE COUNTY**

Sutter Coast Hospital

#### EL DORADO COUNTY

Barton Memorial Hospital\*

#### FRESNO COUNTY

Clovis Community Hospital Fresno Community Hospital Sanger General Hospital\* Selma District Hospital

#### **HUMBOLDT COUNTY**

Redwood Memorial Hospital\*
Southern Humboldt Community Hospital\*

#### IMPERIAL COUNTY

El Centro Regional Medical Center\* Pioneers Memorial Hospital

#### INYO COUNTY

Northern Inyo Hospital Southern Inyo Hospital\*

#### **KERN COUNTY**

Kaiser – Bakersfield Ridgecrest Regional Hospital\*

#### KINGS COUNTY

Central Valley General Hospital\*

#### LAKE COUNTY

Redbud Community Hospital\*

#### LASSEN COUNTY

Lassen Community Hospital\*

LOS ANGELES COUNTY
Arcadia Methodist Hospital
Cedars-Sinai Medical Center\*
Coast Plaza Doctors Hospital\*
Columbia West Hills Medical Center\*
Community and Mission Hospital
Daniel Freeman Marina Hospital\*
Daniel Freeman Memorial Hospital
Downey Community Hospital
Encino Hospital\*
Glendale Adventist Medical Center
Glendale Memorial Hospital\*
Henry Mayo Newhall Memorial
Hospital
Hollywood Community Hospital\*

Hollywood Community Hospital' Huntington Memorial Hospital

Kaiser – Harbor City

Kaiser – Los Angeles

Lakewood Regional Medical Center Lancaster Community Hospital

Long Beach Community Medical Center Memorial Hospital of Gardena Midway Hospital\*

Mission Community Hospital\* Monrovia Community Hospital\* Monterey Park Hospital\*

Pomona Valley Hospital
Presbyterian Intercommunity Hospital

Providence Holy Cross Medical Center\* Providence St. Joseph Medical Center\* St. Francis Medical Center

#### LOS ANGELES COUNTY (CONT.)

St. Jude Hospital
San Gabriel Valley Medical Center
San Pedro Peninsula Hospital\*
Santa Marta Hospital
Santa Teresita Hospital
Tarzana Hospital
Torrance Memorial Hospital
Tri-City Regional Medical Center\*
Valley Presbyterian Hospital\*
Vencor Hospital – Los Angeles\*
White Memorial Medical Center\*
Whittier Hospital Medical Center\*

#### MADERA COUNTY

Madera Community Hospital\*

#### MENDOCINO COUNTY

Howard Memorial Hospital\*
Mendocino Coast District Hospital\*

#### MERCED COUNTY

Emanuel Medical Center Mercy Hospital

#### MODOC COUNTY

Surprise Valley Hospital\*

#### MONO COUNTY

Mammoth Hospital\*

<sup>\*</sup>Hospitals that **did not** have any fireworks injuries during the 1998 fireworks season



#### MONTEREY COUNTY

Community Hospital of Monterey Peninsula Salinas Valley Memorial Hospital

#### NAPA COUNTY

Holderman Hospital\*

#### ORANGE COUNTY

Anaheim Memorial Medical Center Chapman Medical Hospital\* Coastal Communities Hospital\* Fountain Valley Regional Hospital Huntington Beach Hospital Irvine Medical Center\* Kaiser Permanente – Anaheim La Palma Intercommunity Hospital Los Alamitos Medical Center Martin Luther Hospital\* Orange Coast Memorial Medical Center\* Placentia Linda Hospital St. Joseph Hospital\* St. Jude Hospital San Clemente Hospital and Medical Center South Coast Medical Center\* UCI Medical Center\* Western Medical Center - Anaheim

#### PLUMAS COUNTY

Seneca District Hospital\*

#### RIVERSIDE COUNTY

Corona Regional Medical Center\*
Desert Regional Medical Center\*
Eisenhower Medical Center\*
Kaiser Permanente – Riverside
Palo Verde Hospital
Parkview Community Hospital\*
Riverside County Regional Medical Center
Sharp Healthcare – Murietta\*

#### **SACRAMENTO COUNTY**

Kaiser – Sacramento
Mercy American River Hospital\*
Mercy General Hospital
Mercy Hospital – Folsom
Mercy San Juan Hospital
UCD Medical Center

#### SAN BENITO COUNTY

Hazel Hawkins Hospital\*
Santa Teresa Community Hospital

#### SAN BERNARDINO COUNTY

Barstow Community Hospital\*
Bear Valley Community Hospital\*
Chino Valley Medical Center
Desert Valley Hospital\*
Hi Desert Medical Center\*
Kaiser Permanente – Fontana
Loma Linda University Medical Center
Redlands Community Hospital\*
St. Mary Regional Medical Center\*
San Bernardino County Medical Center
U S Family Care Medical Center\*

#### SAN DIEGO COUNTY

Fallbrook Hospital District\*
Kaiser Permanente – San Diego
Paradise Valley Hospital\*
Pomerado Hospital\*

#### SAN DIEGO COUNTY (CONT.)

Scripps Hospital – East County\*
Scripps Memorial Hospital – La Jolla\*
Sharp Chula Vista Medical Center
Sharp Coronado Hospital\*
Villa View Community Hospital\*

#### SAN FRANCISCO COUNTY

California Pacific Medical Center\*
Davies Medical Center\*
St. Mary's Medical Center\*
UC Stanford Health Care\*

#### SAN LUIS OBISPO COUNTY

Arroyo Grande Community Hospital\* San Luis Obispo General Hospital\* Sierra Vista Regional Medical Center\* Twin Cities Community Hospital

#### SAN MATEO COUNTY

Kaiser – South San Francisco Mills Memorial Hospital Sequoia Hospital\* Seton Coastside Hospital\*

### SANTA BARBARA COUNTY

Goleta Valley Cottage Hospital\* Lompoc District Hospital\* St. Francis Medical Center\*

#### SANTA CLARA COUNTY

Community Hospital of Los Gatos Good Samaritan Hospital\* Kaiser Permanente – Santa Clara\* Santa Clara Valley Medical Center\* South Valley Hospital UCSF/Stanford Health Services\*

#### SANTA CRUZ COUNTY

Dominican Hospital

#### SHASTA COUNTY

Redding Medical Center\*

#### SISKIYOU COUNTY

Fairchild Medical Center

#### SONOMA COUNTY

Healdsburg General Hospital\* Palm Drive Hospital\* Sutter Medical Center of Santa Rosa Warrack Hospital\*

#### STANISLAUS COUNTY

Emanuel Medical Center Memorial Medical Center Oak Valley Hospital District

#### TULARE COUNTY

Kaweah Delta
Lindsay District Hospital\*
Sierra View Hospital
Tulare District Healthcare System

#### VENTURA COUNTY

Community Memorial Hospital\*
Los Robles Regional Medical Center
Ojai Valley Community Hospital\*
St. John's Regional Medical Center\*
Simi Valley Hospital
Ventura County Medical Center\*

#### YOLO COUNTY

Sutter Davis Hospital

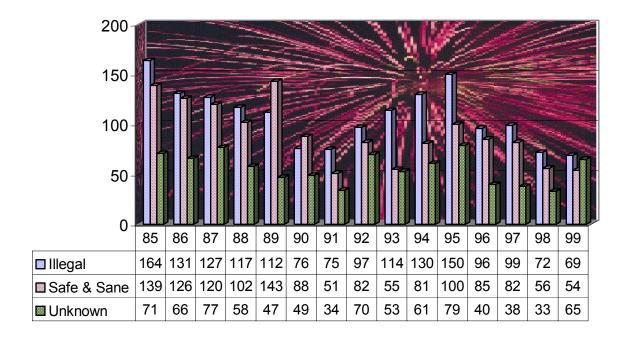
#### YUBA COUNTY

Rideout Memorial Hospital



<sup>\*</sup>Hospitals that <u>did not</u> have any fireworks injuries during the 1998 fireworks season

# FIREWORKS INJURIES Hospital Emergency Room Survey June 17 - July 16, 1998



# Hospital Injury Data INJURIES BY FIREWORKS CLASSIFICATION BY COUNTY June 17 thru July 16, 1998

		Classification						
COUNTY	TOTAL BY COUNTY	LEGAL	ILLEGAL	UNKNOWN				
01 Alameda	13	5	7	1				
06 Colusa	1	0	1	0				
07 Contra Costa	3	0	3	0				
08 Del Norte	1	0	0	1				
10 Fresno	7	4	3	0				
13 Imperial	3	0	1	2				
14 Inyo	1	1	0	0				
19 Los Angeles	38	16	17	5				
24 Merced	3	0	2	1				
27 Monterey	3	0	1	2				
30 Orange	16	11	2	3				
33 Riverside	4	3	1	0				
34 Sacramento	11	1	10	0				
35 San Benito	1	0	0	1				
36 San Bernardino	12	3	7	2				
37 San Diego	2	0	0	2				
39 San Joaquin	1	0	0	1				
40 San Luis Obispo	1	0	0	1				
41 San Mateo	6	1	3	2				
43 Santa Clara	2	1	0	1				
44 Santa Cruz	2	1	0	1				
47 Siskiyou	1	0	0	1				
49 Sonoma	2	0	2	0				
50 Stanilaus	16	5	8	3				
54 Tulare	5	3	2	0				
56 Ventura	3	1	1	1				
57 Yolo	2	0	0	2				
58 Yuba	1	0	1	0				
Total	161	56	72	33				

## Counties reporting no hospital injuries:

03	Amador	20	Madera
04	Butte	23	Mendocino
05	Calaveras	25	Modoc
09	El Dorado	26	Mono
12	Humboldt	28	Napa
15	Kern	32	Plumas
16	Kings	38	San Francisco
17	Lake	42	Santa Barbara
18	Lassen	45	Shasta

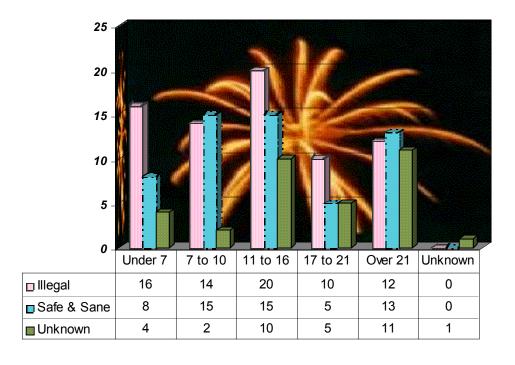
## Counties with no hospitals reporting:

46 Sierra
48 Solano
51 Sutter
52 Tehama
53 Trinity
55 Tuolumne

# Hospital Injury Data

# **Injuries** by Fireworks Classification by Age

June 17 - July 16, 1998



# **Hospital Injury Data**

# INJURIES BY TYPE OF FIREWORKS DEVICE BY AGE

JUNE 17 THRU JULY 16, 1998

		AGE							
TYPE OF DEVICE	TOTAL OF DEVICE	UNDER 7	7 – 10	11 – 16	17 – 21	OVER 21	UNKNOWN		
Firecracker *	19	1	2	8	2	6	0		
M80, Etc *	11	0	0	4	4	3	0		
Smoke Bombs	7	1	1	4	0	1	0		
Sparkler, Wire Core *	6	4	2	0	0	0	0		
Wheel	2	0	2	0	0	0	0		
Party Popper	1	0	0	0	0	1	0		
Sky Rocket with Stick *	4	0	1	1	0	2	0		
Bottle Rocket *	1	0	0	1	0	0	0		
California Candle (hand held)	4	2	1	0	0	1	0		
Roman Candle (shoots balls) *	4	0	1	2	1	0	0		
Handle Fountain (hand held) *	1	0	1	0	0	0	0		
Unknown (probably thrown)	6	0	0	2	1	3	0		
Cone Fountain	4	0	1	1	1	1	0		
Base Fountain	18	1	7	5	2	3	0		
Torpedo (snap caps) *	2	1	0	1	0	0	0		
Other	15	5	4	5	1	0	0		
Display, Public	5	0	0	1	1	3	0		
Homemade *	6	0	1	3	1	1	0		
Ground Spinner (ground flower)	9	1	1	2	1	4	0		
Unknown (probably hand held)	2	0	0	0	1	1	0		
Unknown (probably rocket)	3	0	0	1	0	2	0		
Unknown (unclassified)	13	1	1	4	2	4	1		
Sparkler, wooden core *	18	11	5	0	2	0	0		
TOTAL BY AGE	161	28	31	45	20	36	1		

<sup>\*</sup> Denotes ILLEGAL device

# **Hospital Injury Data**

## INJURIES BY TYPE OF FIREWORKS DEVICE BY BODY PART INJURED

## **JUNE 17 THRU JULY 16, 1998**

						BODY	<b>PARTS</b>				
Type Of Device	Total Body Parts Injured	Head Face	Eyes	Neck	Arm	Hand Except Fingers	Fingers	Torso	Leg	Foot	Other
Firecracker *	25	4	4	0	3	10	0	2	1	1	0
M80, Etc. *	18	2	0	1	1	4	1	1	1	5	2
Smoke Bombs	8	2	1	0	0	2	0	0	0	2	0
Sparkler, Wire Core *	6	1	0	0	2	0	2	0	0	1	0
Wheel	2	0	0	0	0	0	0	0	0	2	0
Party Popper	2	0	0	0	1	0	0	1	0	0	0
Sky Rocket with stick *	5	1	1	0	0	1	0	1	1	0	0
Bottle Rocket *	1	0	1	0	0	0	0	0	0	0	0
California Candle (hand held)	6	1	0	0	1	3	0	0	0	0	1
Roman Candle (shoots balls) *	6	0	0	0	1	2	0	1	1	1	0
Handle Fountain (hand held) *	1	0	0	0	1	0	0	0	0	0	0
Unknown (Probably thrown)	7	1	5	0	0	1	0	0	0	0	0
Cone Fountain	6	1	1	0	0	3	0	0	0	1	0
Base Fountain	27	6	4	2	3	5	1	1	2	3	0
Torpedo (Snap caps) *	3	0	0	0	0	0	0	0	2	0	1
Other	27	8	3	2	2	3	2	1	2	2	2
Display, Public	5	1	4	0	0	0	0	0	0	0	0
Homemade *	8	0	0	0	0	3	0	1	2	2	0
Ground Spinner (ground flower)	12	0	0	1	0	5	1	0	2	3	0
Unknown (Probably hand held)	2	0	0	0	1	1	0	0	0	0	0
Unknown (Probably rocket)	4	2	1	0	0	1	0	0	0	0	0
Unknown (Unclassified)	21	2	2	1	3	5	2	0	1	5	0
Sparkler, Wooden core *	22	2	9	0	1	3	0	1	2	2	2
Total	224	35	36	7	20	52	9	10	17	30	8

FIGURES REFLECT INJURY TO MORE THAN ONE BODY PART FOR SOME INCIDENTS.

<sup>\*</sup> Denotes ILLEGAL device